

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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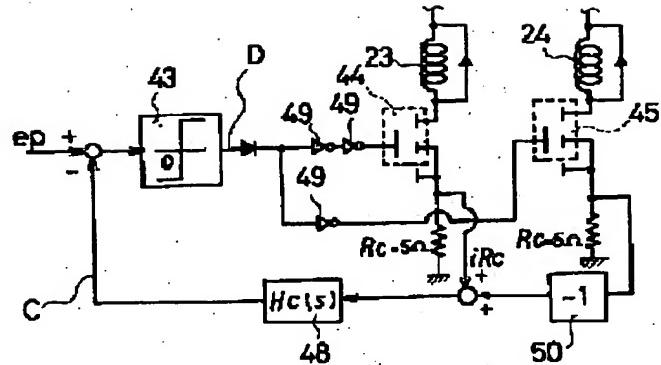
APPLICATION DATE : 08-01-96  
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INVENTOR : KIMURA MAKOTO;

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TITLE : CONTROL METHOD OF SOLENOID  
 CHANGE-OVER VALVE AND  
 CONTROL DEVICE



ABSTRACT : PROBLEM TO BE SOLVED: To prevent occurrence of a limit cycle produced in the case of driving a solenoid change-over vale by simple on and off control.

SOLUTION: A control method of a solenoid change-over valve is to have a comparator 43 to control electrification to driving coils 23, 24 of the solenoid change-over valve and to feed back an electric current flowing in the driving coils 23, 24 to the comparator 43 through a first order lag transfer function  $H_c(s)$ . Hereby, time constant of the first order lag transfer function  $H_c(s)$  is made 0.01 second or more and 0.33 second or less.

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